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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Yuji Maeda et al.

Serial No.: 09/048,076

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For: VECTOR SEARCH METHOD

Group A.U.: 2741

I hereby certify that this paper is being deposited this date with the U.S. Postal Service in first class mail addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Jay H. Maioli — October 1, 1998
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October 1, 1998
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

As a means of complying with the duty of disclosure set forth in 37 CFR § 1.56 and in keeping with the guidelines of 37 CFR § 1.97 (b), Applicants hereby submit information thought to be relevant to the examination of the above-identified application. Also submitted herewith is a completed form PTO-1449.

No Office Action has yet been received in the above-identified application.

European Patent Application 0 602 954 ("Nakamura")

relates to a codebook search system in a speech encoder in which an excitation sound source is synthesized with the linear coupling of at least two predetermined basis vectors. An ordination of a first cross correlation between an input speech signal and a plurality of reproduced signals is computed. Moreover, an ordination of a second cross correlation of the plurality of reproduced signals is computed.

Nakamura is distinguished from the present invention by at least its failure to disclose a vector method comprising the steps of calculating a difference error between a prediction vector and an input vector so that combinations of factors respectively multiplied by a plurality of basic vectors are changed according to the Gray code, as taught by the present invention and as recited in the amended claims.

I. Gerson et al., Vector Sum Excited Linear Prediction, Advances in Speech Coding, pages 69-79 (January 1, 1991) ("Gerson et al.") relates to the utilization of two Vector Sum Excited Linear Prediction excitation codebooks to achieve high speech quality. A gain quantizer and an adaptive pre/post filter arrangement are also used.

Gerson et al. is distinguished from the present invention by at least its failure to disclose a vector method comprising the steps of calculating a difference error between a prediction vector and an input vector so that combinations of factors respectively multiplied by a plurality of basic vectors are changed according to the Gray code, as taught by the present invention and as recited in the amended claims.

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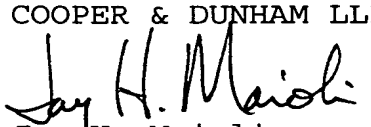
Respectfully submitted,
COOPER & DUNHAM LLP



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